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NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 05/28/2008 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR

IRVINE, CA 92614

EXAMINER

LAM, HUNG Q

ART UNIT PAPER NUMBER

2881

DATE MAILED: 05/28/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/579,459 | 05/16/2006 | Masayoshi Suzuki | WATAB5.001APC | 3399 |

TITLE OF INVENTION: OPTICAL CONNECTION STRUCTURE AND OPTICAL CONNECTION METHOD

 APPLN TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 08/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE DEE and DURI ICATION DEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further indicated unless corrects maintenance fee notifica | correspondence includir ed below or directed oth tions. | ng the Patent, advance on nerwise in Block 1, by (| rders and notification of r a) specifying a new corre | naintenance fees v spondence address: | vill be and/or | mailed to the current (b) indicating a sepa | correspondence address as trate "FEE ADDRESS" for |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | |
| 20995 | 7590 05/28 | /2008 | nav | | | _ | |
| KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR | | | I he Stat add tran | reby certify that the es Postal Service v ressed to the Mail smitted to the USP | is Fee(vith sul Stop TO (57 | of Mailing or Transo s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da | mission g deposited with the United it class mail in an envelope above, or being facsimile ate indicated below. |
| IRVINE, CA 92 | 614 | | | | | | (Depositor's name) |
| | | | | | | | (Signature) |
| | | | L | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/579,459 | 05/16/2006 | ' | Masayoshi Suzuki | | w | ATAB5.001APC | 3399 |
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| nonprovisional | NO | \$1440 | \$300 | \$0 | | \$1740 | 08/28/2008 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | 1 | | | |
| LAM, H | | 2883 | 385-058000 | • | | | |
| 1. Change of corresponde CFR 1.363). | ence address or indicatio | n of "Fee Address" (37 | 2. For printing on the p | | | 1 | |
| | | | (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, | | | | |
| ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to | | | | |
| | | | 2 registered patent attorneys or agents. If no name is 3 | | | | |
| 3. ASSIGNEE NAME A | ND RESIDENCE DATA | A TO BE PRINTED ON | THE PATENT (print or tvi | oe) | | | |
| PLEASE NOTE: Unl | ess an assignee is ident | ified below, no assignee | data will appear on the p | atent. If an assign | ee is ic | lentified below, the do | ocument has been filed for |
| (A) NAME OF ASSI | | netion of this form is NO | (B) RESIDENCE: (CITY | | | | |
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| Please check the appropr | iate assignee category or | categories (will not be po | rinted on the patent): | Individual 🖵 Co | orporati | on or other private gro | oup entity Government |
| 4a. The following fee(s) | are submitted: | 4 | b. Payment of Fee(s): (Plea | ise first reapply a | ny prev | lously paid issue fee | shown above) |
| Issue Fee | | | A check is enclosed. | | | | |
| | | | Payment by credit car The Director is hereby | authorized to char | ge the | required fee(s), any det | ficiency, or credit any |
| | | | overpayment, to Depo | sit Account Numb | er | (enclose a | n extra copy of this form). |
| 5. Change in Entity Sta | tus (from status indicate s SMALL ENTITY statu | | ☐ b. Applicant is no lon | ger claiming SMA | I EN | FITV status See 37 Cl | P 1 27(a)(2) |
| - 11 | | | | | | | e assignee or other party in |
| interest as shown by the | records of the United Sta | tes Patent and Trademark | Office. | | | | |
| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | | Registration No. | | | |
| This collection of inform an application. Confiden submitting the completes this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this bu- lirginia 22313-1450. DC 13-1450. | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | on is required to obtain or i 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS To | retain a benefit by t timated to take 12 ridual case. Any co er, U.S. Patent and D THIS ADDRESS | he pub minuter mment Trader S. SEN | lic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| 20995 7 | 590 05/28/2008 | | EXAM | UNER |
| KNOBBE MARTENS OLSON & BEAR LLP | | | LAM, HUNG Q | |
| 2040 MAIN STRE | | | ART UNIT | PAPER NUMBER |
| FOURTEENTH FLOOR IRVINE, CA 92614 | | | 2883 DATE MAILED: 05/28/200 | 8 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

| Application No. | Applicant(s) | |
|-----------------|---------------|--|
| 10/579,459 | SUZUKI ET AL. | |
| Examiner | Art Unit | |
| JUNG LAM | 2002 | |

— The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 02/19/2008.
- 2. The allowed claim(s) is/are 1-4, 7-11, 13-20, 25, 28 and 29.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date ____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date ______

 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

/BRIAN HEALY/ Primary Examiner Art Unit: 2883 Application/Control Number: 10/579,459

Art Unit: 2883

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claims 21-24 have been withdrawn as non-elected invention, now hereby are canceled upon the allowance of elected claims 1-4, 7-11, 13-20, 25, 28 and 29, since the applicants made the election without traverse.

The application has been amended as follows:

Listing of amended claims 21-24:

21. (Examiner amended) Canceled.

22. (Examiner amended) Canceled.

23. (Examiner amended) Canceled.

24. (Examiner amended) Canceled.

Status of the Application

New claim 29 has been added.

Claims 5-6, 12, 21-24, 26 and 27 are cancelled.

Claims 1-4, 7-11, 13-20, 25, 28 and 29 are allowed.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Application/Control Number: 10/579,459

Art Unit: 2883

The prior art does not show or fairly suggest the claimed invention of an optical connection structure having the claimed structure and claimed limitations, wherein a rejection under 35 USC 102 or 103 would be improper.

Yasuhiro et al (JP 2001-124958) is the most relevant prior arts of record.

Vasuhiro et al. teach an optical connection structure as shown in figures 1 and 2. The structure includes a solid viscous connection member (2) having a refractive index matching that of the optical transmission media (1) (see lines 9-14 of the English translation abstract). The connection member is adheringly disposed in a single layer between the end face of and optical transmission media (1) and an optical component (5) that are mutually opposing as shown in figure 2.

Regarding claims 1 and 8, Yasuhiro et al. alone or in combination, however, still fail to teach that the "viscous connection is a sheet-shaped viscous connection member", wherein "...minimum value D of the distance from the center of the end face of the optical transmission medium, having a radius R and contacting said viscous connection member, to the periphery of said viscous connection member is within the range $2R \le D \le 60R$ " and "the maximum distance D2 from the center of the core of the optical transmission medium to the periphery of the viscous connection member satisfies the relation $D2 \le 1.5R$, where R is the radius of the optical transmission medium". Thus the range for the minimum value D of the distance from the center of the end face of the optical transmission medium to the periphery of the viscous connection member, prevents the viscous connection member from breaking as to achieve a stable connection, and further providing a sufficient adhered area to between entire end faces of optical transmission components in order to reduce transmission loss.

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Therefore in light of the Applicant's amendment, claims 1 and 8 are allowable as distinguishes over the prior art of record because of the reason stated above. It is this examiner's position that prior art taken alone, fails to disclose or render obvious in combination with the rest of the limitations of base claims.

Claims 2-4, 7, 9-11, 13-20, 25, 28 and 29 are allowable as dependent claims of claims 1 and 8.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Lam whose telephone number is 571-272-9790. The examiner can normally be reached on M - F 07:30 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2883

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hung Lam//BRIAN M. HEALY/ for FRANK FONT, SPE of Art Unit 2883

Examiner, Art Unit 2883
